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Cell Line Characteristics

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Repository Number: GM05977

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05977

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: Yes

Age: 26 YR

Gender: Male

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Relation to Proband: affected nephew

Remarks: Type I bipolar illness; son of GM05973B and GM05975A; see GM05976
Fibroblast; 2 admissions since 1984 diagnosed as manic

Price: \$85

Ordering Instructions:
[Order Form](#)
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Ordering:

External Database Links

Locus Link

[LocusLink ID: 4095](#)

[LocusLink ID: 4096](#)

OMIM

[125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)

[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

dbSNP

[dbSNP ID: 779](#)

Culture Protocol

Split Ratio: 1:5

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations**IDENTIFICATION OF SPECIES
OF ORIGIN:**

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-
Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme
Electrophoresis

PCR Analysis Results

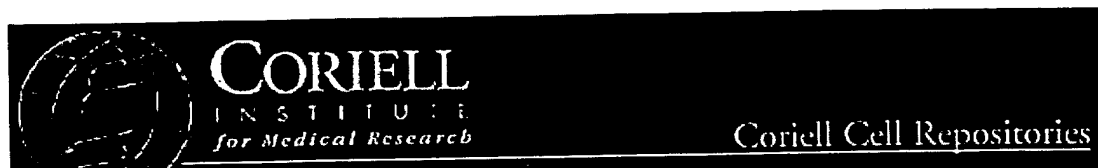
Primer	Location	Result	Source
DYS227	Yq11	+	CCR

References

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: [2682265](#)

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: [2881209](#)

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Cell Line Characteristics

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Repository Number: GM05999

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05999

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: Yes

Age: 22 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Relation to Proband: affected niece

Remarks: Type I bipolar illness; onset at age 16 yrs; recurrent manic & major depressive episodes, each lasting from several weeks to a month; 3 affected sibs; daughter of GM05993A & GM05995A; see GM06000 Fibroblast

Price: \$85

Ordering Instructions

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Ordering:

External Database Links

Locus Link LocusLink ID: 4095

LocusLink ID: 4096

OMIM 125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL
309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED

Culture Protocol

Split Ratio: 1:3

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations**IDENTIFICATION OF SPECIES
OF ORIGIN:**

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

References

Bowman ED, Bromeke B, Lensing W, Shields PG, *Am J Med Genet* 76(1):32-6 (1998)
Apolipoprotein E allelic frequency in elderly smokers.

PubMed ID: [9508061](#)

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]

PubMed ID: [2682265](#)

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.

PubMed ID: [2881209](#)

Gerhard DS, Kidd KK, Kidd JR, Egeland JA, Housman DE, *Proc Natl Acad Sci U S A* 81:7875-9 (1984) Identification of a recent recombination event within the human beta- globin gene cluster.

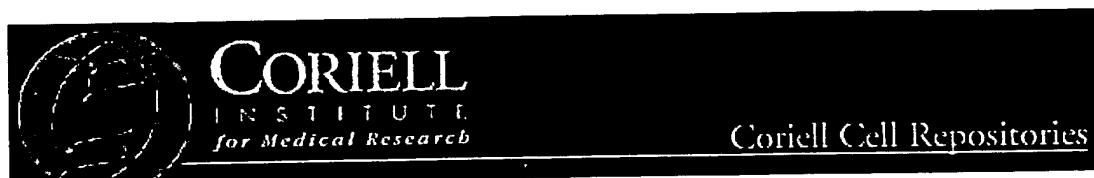
PubMed ID: [6096866](#)

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM05918

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05918

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: Yes

Age: 26 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Major depressive disorder; 4 sibs with type I bipolar illness; onset at age 37; daughter of GM05993A & GM05995B; see GM05919 Fibroblast

Ordering: Price: \$85
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External Database Links

Locus Link [LocusLink ID: 4095](#)
[LocusLink ID: 4096](#)

OMIM [125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)
[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation dilution - add fresh medium

Method:

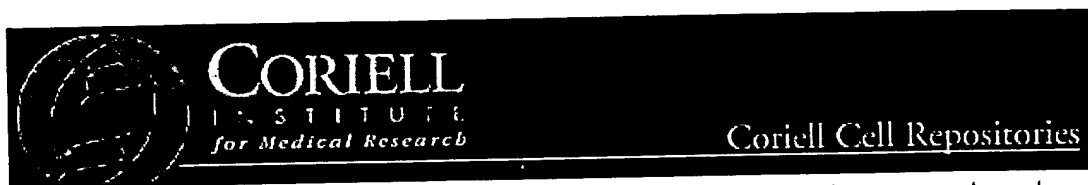
Characterizations

IDENTIFICATION OF SPECIES OF ORIGIN: Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

References

- Bowman ED, Bromeke B, Lensing W, Shields PG, *Am J Med Genet* 76(1):32-6 (1998)**
Apolipoprotein E allelic frequency in elderly smokers.
PubMed ID: [9508061](#)
- Lisitsyn N, Lisitsyn N, Wigler M, *Science* 259:946-51 (1993)** Cloning the differences between two complex genomes.
PubMed ID: [8438152](#)
- Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989)** Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: [2682265](#)
- Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987)** Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: [2881209](#)
- Gerhard DS, Kidd KK, Kidd JR, Egeland JA, Housman DE, *Proc Natl Acad Sci U S A* 81:7875-9 (1984)** Identification of a recent recombination event within the human beta- globin gene cluster.
PubMed ID: [6096866](#)

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Cell Line Characteristics

Repository Number: GM06003

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA06003

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: Yes

Age: 16 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Recurrent type I bipolar illness; onset at age 25 with a postpartum manic psychosis; 3 sibs have type I bipolar illness; daughter of GM05993A & GM05995B; see GM06004 Fibroblast; asymptomatic on Lithium

Ordering: Price: \$85
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External Database Links

Locus Link [LocusLink ID: 4095](#)
[LocusLink ID: 4096](#)

OMIM [125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)
[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:3

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations

http://locus.umdj.edu/nigms/nigms_cgi/display.cgi?GM06003

3/24/2004

IDENTIFICATION OF SPECIES OF ORIGIN: Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

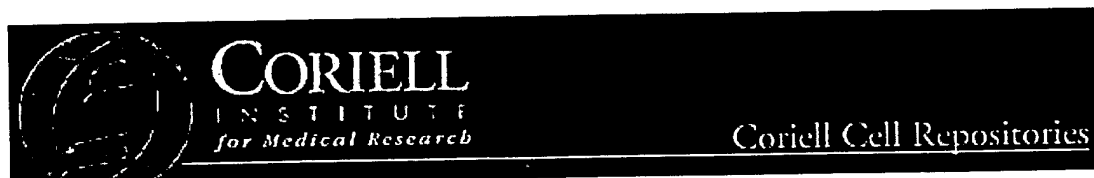
References

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: [2682265](#)

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: [2881209](#)

Gerhard DS, Kidd KK, Kidd JR, Egeland JA, Housman DE, *Proc Natl Acad Sci U S A* 81:7875-9 (1984) Identification of a recent recombination event within the human beta- globin gene cluster.
PubMed ID: [6096866](#)

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM11051

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: Yes

Age: 35 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 1075

Remarks: Type I bipolar illness; onset at age 18; deceased father had a manic-depressive disorder; major episodes at ages 18 & 28 requiring hospitalization & medication; daughter of GM11050

Price: \$85

Ordering Instructions

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Ordering:

External Database Links

Locus Link LocusLink ID: 4095

LocusLink ID: 4096

OMIM

125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL

309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation dilution - add fresh medium

Method:

Characterizations

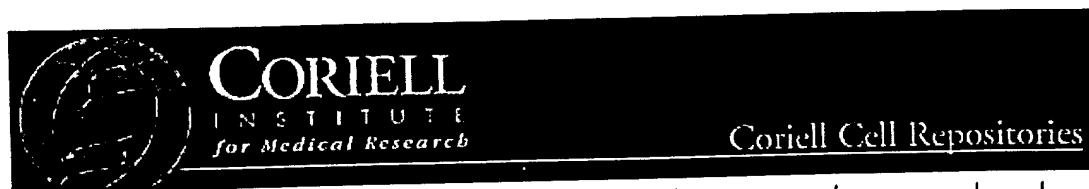
Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-

IDENTIFICATION OF SPECIES Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme
OF ORIGIN: Electrophoresis

References

Ginns EI, Ott J, Egeland JA, Allen CR, Fann CS, Pauls DL, Weissenbachoff J, Carulli JP, Falls KM, Keith TP, Paul SM, *Nat Genet* 12:431-5 (1996) A genome-wide search for chromosomal loci linked to bipolar affective disorder in the Old Order Amish.
PubMed ID: 8630500

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM05933

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05933

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: Yes

Age: 25 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Type I bipolar illness; single episode at age 24; father & sib have type I bipolar illness; see GM05932 Fibroblast; daughter of GM05927A & 05929A

Ordering: Price: \$85
Ordering Instructions
Order Form
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External Database Links

Locus Link LocusLink ID: 4095
LocusLink ID: 4096

OMIM 125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL
309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED

dbSNP dbSNP ID: 750

Culture Protocol

Split Ratio: 1:5

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations**IDENTIFICATION OF SPECIES
OF ORIGIN:**

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

PCR Analysis Results

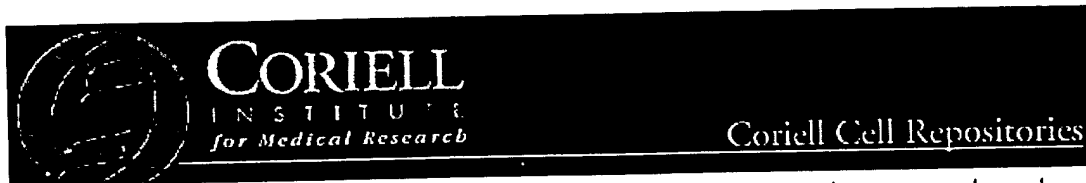
Primer	Location	Result	Source
DYS227	Yq11	-	CCR

References

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: [2682265](#)

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: [2881209](#)

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Repository Number: GM05914

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05914

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 23 YR

Gender: Male

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Clinically normal; 4 sibs with type I bipolar illness; son of GM05993A and GM05995B; see GM05915 Fibroblast

Ordering: Price: \$85
[Ordering Instructions](#)
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External Database Links

Locus Link [LocusLink ID: 4095](#)
[LocusLink ID: 4096](#)

OMIM [125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)
[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations

http://locus.umdj.edu/nigms/nigms_cgi/display.cgi?GM05914

3/24/2005

**IDENTIFICATION OF SPECIES
OF ORIGIN:**

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

References

Bowman ED, Bromeke B, Lensing W, Shields PG, *Am J Med Genet* 76(1):32-6 (1998)
Apolipoprotein E allelic frequency in elderly smokers.

PubMed ID: 9508061

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]

PubMed ID: 2682265

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.

PubMed ID: 2881209

Gerhard DS, Kidd KK, Kidd JR, Egeland JA, Housman DE, *Proc Natl Acad Sci U S A* 81:7875:9 (1984) Identification of a recent recombination event within the human beta- globin gene cluster.

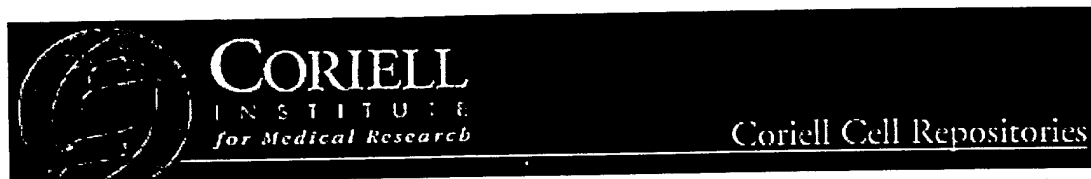
PubMed ID: 6096866

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Cell Line Characteristics

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Repository Number: GM05901

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05901

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 28 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Clinically normal; 4 sibs with type I bipolar illness; daughter of GM05993A & GM05995A; see GM05902 Fibroblast

Price: \$85

Ordering Instructions: [Ordering Instructions](#)

Order Form: [Order Form](#)

Assurance Form: [Assurance Form](#)

Statement of Research Intent Form: [Statement of Research Intent Form](#)

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Locus Link

[LocusLink ID: 4095](#)

[LocusLink ID: 4096](#)

OMIM

[125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)

[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations

http://locus.umdj.edu/nigms/nigms_cgi/display.cgi?GM05901

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**IDENTIFICATION OF SPECIES
OF ORIGIN:**

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	149	153
<u>THO-1</u>	159	163
<u>FES/FPS</u>	220	228
<u>D5S592</u>	174	178
<u>D10S526</u>	194	198
<u>D22S417</u>	181	197
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

References

Bowman ED, Bromeke B, Lensing W, Shields PG, *Am J Med Genet* 76(1):32-6 (1998)
Apolipoprotein E allelic frequency in elderly smokers.

PubMed ID: 9508061

Lisitsyn N, Lisitsyn N, Wigler M, *Science* 259:946-51 (1993) Cloning the differences between two complex genomes.

PubMed ID: 8438152

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]

PubMed ID: 2682265

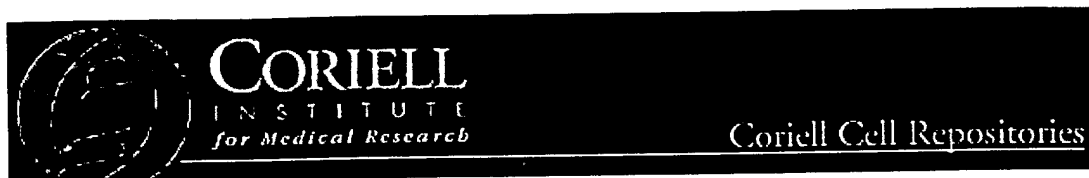
Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.

PubMed ID: 2881209

Gerhard DS, Kidd KK, Kidd JR, Egeland JA, Housman DE, *Proc Natl Acad Sci U S A* 81:7875-9 (1984) Identification of a recent recombination event within the human beta- globin gene cluster.

PubMed ID: 6096866

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Cell Line Characteristics

Repository Number: GM09215

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Blopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 50 YR

Gender: Male

Race: Caucasian

Ethnicity: AMISH

Family Number: 885

Remarks: Clinically unaffected; 3 siblings & father are affected; brother of GM09193A

Ordering: Price: \$85
[Ordering Instructions](#)
[Order Form](#)
[Assurance Form](#)
[Statement of Research Intent Form](#)

External Database Links

Locus Link [LocusLink ID: 4095](#)
[LocusLink ID: 4096](#)

OMIM [125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)
[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:2

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations

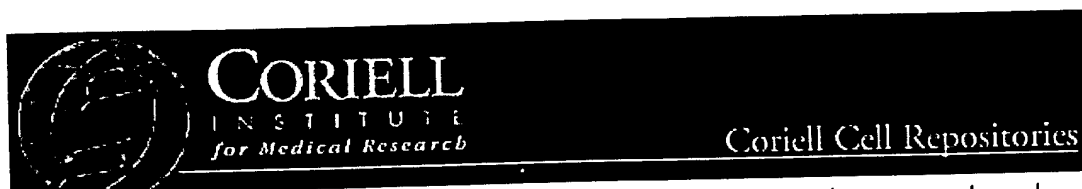
IDENTIFICATION OF SPECIES OF ORIGIN: Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

References

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: 2682265

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: 2881209

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM05888

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05888

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 18 YR

Gender: Male

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Clinically normal; second degree relative of several type I bipolar patients; son of GM05896A & GM05898A; see GM05889 Fibroblast

Price: \$85

Ordering Instructions: Order Form

Assurance Form

Statement of Research Intent Form

External Database Links

Locus Link LocusLink ID: 4095
LocusLink ID: 4096

OMIM 125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL
309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED

dbSNP dbSNP ID: 797

Culture Protocol

Split Ratio: 1:3

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

http://locus.umdj.edu/nigms/nigms_cgi/display.cgi?GM05888

3/24/2005

Characterizations**IDENTIFICATION OF SPECIES
OF ORIGIN:**

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

PCR Analysis Results

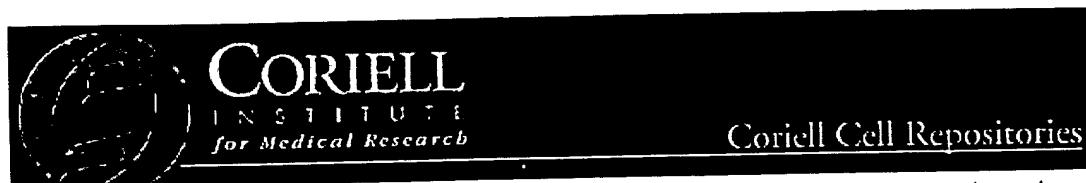
Primer	Location	Result	Source
DYS227	Yq11	+	CCR

References

Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989) Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: [2682265](#)

Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987) Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: [2881209](#)

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM05901

Subcollection: Inherited Disorders

Subcollection: Old Order Amish Primary Affective Disorder

Class: Disorders of the Nervous System

Sample Description: PRIMARY AFFECTIVE DISORDER; OLD ORDER AMISH - 125480 OR 309200

DNA Sample: NA05901

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 28 YR

Gender: Female

Race: Caucasian

Ethnicity: AMISH

Family Number: 884

Remarks: Clinically normal; 4 sibs with type I bipolar illness; daughter of GM05993A & GM05995A; see GM05902 Fibroblast

Ordering: Price: \$85
[Ordering Instructions](#)
[Order Form](#)
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External Database Links

Locus Link [LocusLink ID: 4095](#)
[LocusLink ID: 4096](#)

OMIM [125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)
[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations

http://locus.umdj.edu/nigms/nigms_cgi/display.cgi?GM05901

3/24/2005

IDENTIFICATION OF SPECIES OF ORIGIN: Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

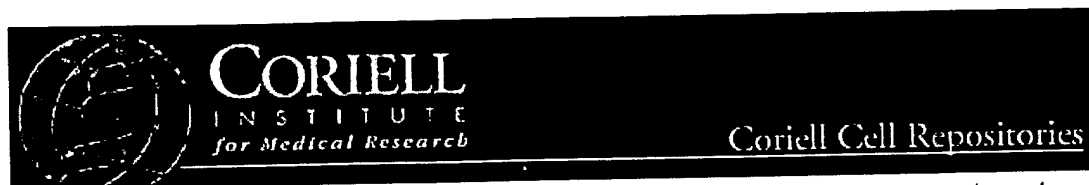
Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	149	153
<u>THO-1</u>	159	163
<u>FES/FPS</u>	220	228
<u>D5S592</u>	174	178
<u>D10S526</u>	194	198
<u>D22S417</u>	181	197
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

References

- Bowman ED, Bromeke B, Lensing W, Shields PG, *Am J Med Genet* 76(1):32-6 (1998)**
Apolipoprotein E allelic frequency in elderly smokers.
PubMed ID: 9508061
- Lisitsyn N, Lisitsyn N, Wigler M, *Science* 259:946-51 (1993)** Cloning the differences between two complex genomes.
PubMed ID: 8438152
- Kelsoe JR, Ginns EI, Egeland JA, Gerhard DS, Goldstein AM, Bale SJ, Pauls DL, Long RT, Kidd KK, Conte G, et al, *Nature* 342:238-43 (1989)** Re-evaluation of the linkage relationship between chromosome 11p loci and the gene for bipolar affective disorder in the Old Order Amish [see comments]
PubMed ID: 2682265
- Egeland JA, Gerhard DS, Pauls DL, Sussex JN, Kidd KK, Allen CR, Hostetter AM, Housman DE, *Nature* 325:783-7 (1987)** Bipolar affective disorders linked to DNA markers on chromosome 11.
PubMed ID: 2881209
- Gerhard DS, Kidd KK, Kidd JR, Egeland JA, Housman DE, *Proc Natl Acad Sci U S A* 81:7875-9 (1984)** Identification of a recent recombination event within the human beta- globin gene cluster.
PubMed ID: 6096866

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM05945

Subcollection: Inherited Disorders

Subcollection: Apparently Healthy Collection

Class: Disorders of the Nervous System

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Sample Description: PRIMARY AFFECTIVE DISORDER; DEPRESSIVE DISORDERS - 125480 OR 309200

DNA Sample: NA05945

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 55 YR

Gender: Female

Race: Caucasian

Family Number: 811

Relation to Proband: mother

Remarks: Clinically unaffected; 2 children with type I bipolar illness; sister has type II bipolar illness; mother had unipolar illness; see GM08329 Fibroblast

ISCN: 46,XX

Price: \$85

Ordering: [Ordering Instructions](#)
[Order Form](#)
[Assurance Form](#)
[Statement of Research Intent Form](#)

External Database Links

Locus Link [LocusLink ID: 4095](#)
[LocusLink ID: 4096](#)

OMIM [125480 MANIC-DEPRESSIVE PSYCHOSIS, AUTOSOMAL](#)
[309200 MANIC-DEPRESSIVE PSYCHOSIS, X-LINKED](#)

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Unactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Passage Frozen: 3**Characterizations****IDENTIFICATION OF SPECIES OF ORIGIN:**Species of Origin Confirmed by Nucleoside Phosphorylase
Isoenzyme Electrophoresis**PCR Analysis Results**

Primer	Location	Result	Source
DYS227	Yq11	-	CCR

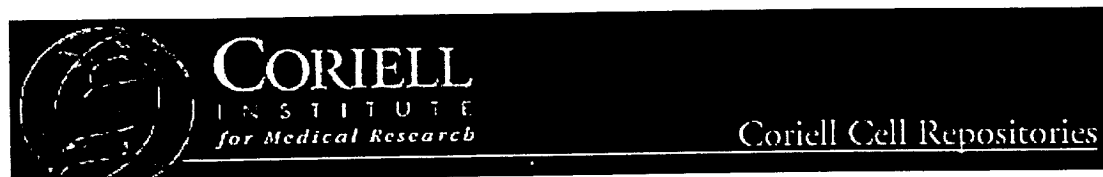
Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	153	157
<u>THO-1</u>	175	175
<u>FES/FPS</u>	220	228
<u>D5S592</u>	190	194
<u>D10S526</u>	198	250
<u>D22S417</u>	177	197
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

References

Gershon ES, Targum SD, Matthysse S, Bunney WE Jr, Arch Gen Psychiatry 36:1423-30 (1979)
 Color blindness not closely linked to bipolar illness. Report of a new pedigree series.
PubMed ID: 316315

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Cell Line Characteristics

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Repository Number: GM06160

Subcollection: Inherited Disorders

Subcollection: Apparently Healthy Collection

Class: Disorders of the Nervous System

Sample Description: HEMOCHROMATOSIS; HFE

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Sample Description: 5,10-@METHYLENETETRAHYDROFOLATE REDUCTASE; MTHFR

Sample Description: APPARENTLY HEALTHY INDIVIDUALS WITH NORMAL PSYCHIATRIC EVALUATIONS

DNA Sample: NA06160

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 25 YR

Gender: Male

Race: Caucasian

Family Number: 1030

Relation to Proband: proband

Remarks:

46,XY; 14% of cells show random chromosome loss/gain; donor subject is heterozygous for the Cys282Tyr mutation (C282Y) of the HFE (HLA-H) gene and is also heterozygous for a C-to-T substitution at nucleotide 677 that converts an alanine to a valine residue in the methylenetetrahydrofolate reductase (MTHFR) gene (677C-T)

ISCN: 46,XY

Price: \$85

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Ordering:

External Database Links

Gene Cards

[HFE](#)

[MTHFR](#)

Gene Ontology

[GO:0004489 methylenetetrahydrofolate reductase \(NADPH\) activity](#)

[GO:0005737 cytoplasm](#)

[GO:0005887 integral to plasma membrane](#)

[GO:0006461 protein complex assembly](#)

[GO:0006520 amino acid metabolism](#)

[GO:0006555 methionine metabolism](#)

[GO:0006810 transport](#)

	GO:0006826 iron ion transport
	GO:0006879 iron ion homeostasis
	GO:0006898 receptor mediated endocytosis
	GO:0006955 immune response
	GO:0008015 circulation
	GO:0016020 membrane
	GO:0016491 oxidoreductase activity
	GO:0019883 antigen presentation, endogenous antigen
	GO:0019885 antigen processing, endogenous antigen via MHC class I
	GO:0030106 MHC class I receptor activity
Locus Link	LocusLink ID: 3077 LocusLink ID: 4524
OMIM	235200 HEMOCHROMATOSIS; HFE 607093 5,10-METHYLENETETRAHYDROFOLATE REDUCTASE; MTHFR

Culture Protocol

Split Ratio:	1:4
Temperature:	37 C
Percent CO2:	5%
Medium:	Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine
Serum:	15% fetal bovine serum Heat Inactivated
Substrate:	None specified
Subcultivation	
Method:	dilution - add fresh medium

Characterizations

Assigned Gene:	HFE
Chromosomal Location:	6p21.3
Allelic Variant 1:	235200.0001 ; HEMOCHROMATOSIS
Identified Mutation:	CYS282TYR ; A missense mutation caused by a G-to-A transition at nucleotide position 845 results in a cysteine to tyrosine transition at codon position 282 [cys282tyr (C282Y)] in the HFE gene.
Assigned Gene:	MTHFR
Chromosomal Location:	1p36.3
Allelic Variant 1:	607093.0003 ; MTHFR THERMOLABILE POLYMORPHISM
Identified Mutation:	677C>T ; Frosst et al. [Nature Genet. 10: 111-113 (1995)] identified a C-to-T substitution at nucleotide 677 that converted an alanine to a valine residue. The alteration created a HinfI site that was used to screen 114 unselected French-Canadian chromosomes; the allele frequency of the substitution was 0.38. The mutation in the heterozygous or homozygous state correlated with reduced enzyme activity and increased thermolability in lymphocyte extracts; in vitro expression of the mutagenized cDNA containing the mutation confirmed its effect on thermolability of MTHFR. Individuals homozygous for the mutation had significantly elevated plasma homocysteine levels. Thus, the 677C-T mutation may represent an important genetic risk factor in vascular disease.

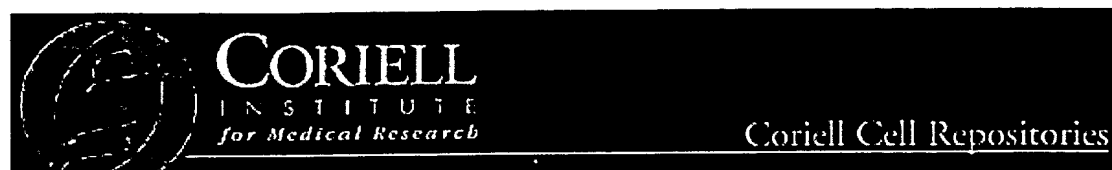
Characterizations

IDENTIFICATION OF SPECIES OF ORIGIN:	Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis and by Chromosome Analysis
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Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	161	165
<u>THO-1</u>	175	175
<u>FES/FPS</u>	220	232
<u>D5S592</u>	186	198
<u>D10S526</u>	190	242
<u>D22S417</u>	185	189
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

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Cell Line Characteristics

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Repository Number: **GM05408**

Subcollection: Inherited Disorders

Subcollection: Apparently Healthy Collection

Class: Disorders of the Nervous System

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Sample Description: APPARENTLY HEALTHY INDIVIDUALS WITH NORMAL PSYCHIATRIC EVALUATIONS

DNA Sample: NA05408

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 28 YR

Gender: Female

Race: Caucasian

Relation to Proband: proband

Remarks: 46,XX; 6% of cells show random chromosome loss/gain

Ordering: Price: \$85
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Culture Protocol

Split Ratio: 1:5

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Unactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Passage Frozen: 2

Characterizations

IDENTIFICATION OF SPECIES OF ORIGIN:

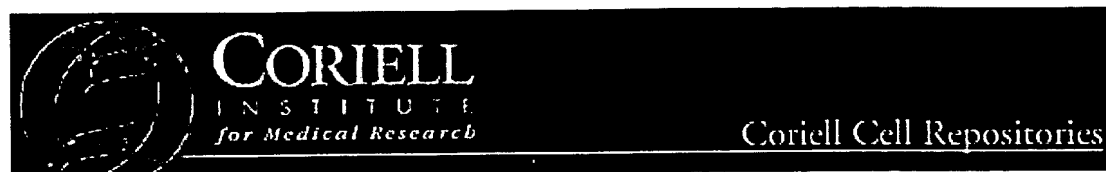
Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis

Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	153	157

<u>THO-1</u>	175	175
<u>FES/FPS</u>	224	224
<u>D5S592</u>	174	182
<u>D10S526</u>	194	250
<u>D22S417</u>	173	189
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

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Cell Line Characteristics

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Repository Number: GM06862

Subcollection: Inherited Disorders

Subcollection: Apparently Healthy Collection

Class: Disorders of the Nervous System

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Sample Description: APPARENTLY HEALTHY INDIVIDUALS WITH NORMAL PSYCHIATRIC EVALUATIONS

DNA Sample: NA06862

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 34 YR

Gender: Female

Race: Caucasian

Relation to Proband: proband

Remarks: 46,XX with 4% of the cells examined showing random chromosome loss and 2% showing random chromosomal aberrations

ISCN: 46,XX

Price: \$85

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Ordering:

Culture Protocol

Split Ratio: 1:4

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Heat Inactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Characterizations

IDENTIFICATION OF SPECIES OF ORIGIN:

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis and by Chromosome Analysis

Genotype Information

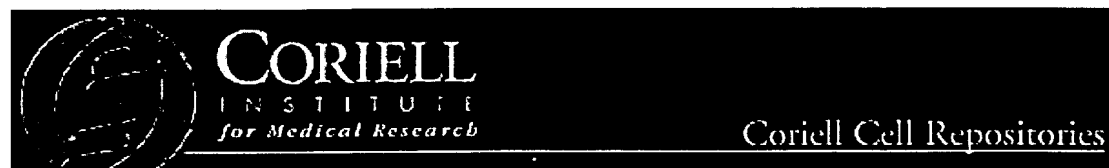
Microsatellite Marker

Bin Size of Allele 1

Bin Size of Allele 2

<u>VWA31</u>	149	153
<u>THO-1</u>	159	163
<u>FES/FPS</u>	224	224
<u>D5S592</u>	182	186
<u>D10S526</u>	190	238
<u>D22S417</u>	173	177
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

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Cell Line Characteristics

Printer Friendly Format

Repository Number: GM06051

Subcollection: Inherited Disorders

Subcollection: Apparently Healthy Collection

Class: Disorders of the Nervous System

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Sample Description: APPARENTLY HEALTHY INDIVIDUALS WITH NORMAL PSYCHIATRIC EVALUATIONS

DNA Sample: NA06051

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 26 YR

Gender: Female

Race: Caucasian

Relation to Proband: proband

Remarks: 46,XX; 6% of cells show random chromosome loss

Ordering: Price: \$85
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Culture Protocol

Split Ratio: 1:3

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Unactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Passage Frozen: 3

Characterizations

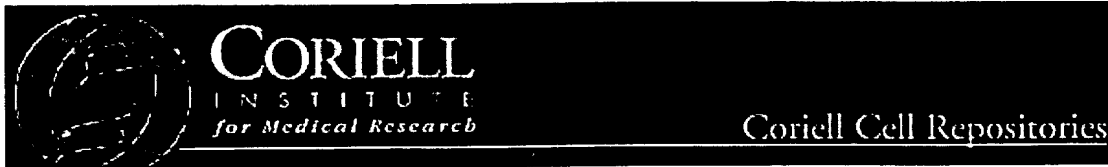
IDENTIFICATION OF SPECIES OF ORIGIN: Species of Origin Confirmed by Chromosome Analysis

Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	149	157
<u>THO-1</u>	167	167

<u>FES/FPS</u>	224	228
<u>D5S592</u>	174	186
<u>D10S526</u>	206	242
<u>D22S417</u>	181	181
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

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Cell Line Characteristics

Printer Friendly Format

Repository Number: **GM06861**

Subcollection: Inherited Disorders

Subcollection: Apparently Healthy Collection

Class: Disorders of the Nervous System

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Sample Description: APPARENTLY HEALTHY INDIVIDUALS WITH NORMAL PSYCHIATRIC EVALUATIONS

DNA Sample: NA06861

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: **36 YR**

Gender: **Male**

Race: Caucasian

Relation to Proband: proband

Remarks: 46,XY; 10% of cells show random chromosome loss and 8% are tetraploid

Ordering: Price: \$85
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Culture Protocol

Split Ratio: 1:3

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Unactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Passage Frozen: 2

Characterizations

IDENTIFICATION OF SPECIES OF ORIGIN:

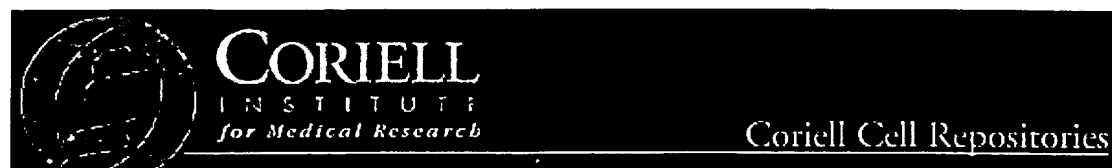
Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis and by Chromosome Analysis

Genotype Information

Microsatellite Marker	Bin Size of Allele 1	Bin Size of Allele 2
<u>VWA31</u>	145	149

<u>THO-1</u>	159	171
<u>FES/FPS</u>	220	224
<u>D5S592</u>	178	178
<u>D10S526</u>	194	246
<u>D22S417</u>	173	177
CEPH Reference Data	<u>1331-1</u>	<u>1331-2</u>

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Cell Line Characteristics



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Repository Number: **GM09869**

Subcollection: Apparently Healthy Collection

Sample Description: APPARENTLY HEALTHY NON-FETAL TISSUE

Cell Type: B-Lymphocyte

Transformant: Epstein-Barr Virus

Tissue Type: Blood

Biopsy Source: Peripheral vein

Genus species: Homo sapiens

Common Name: human

Clinically Affected: No

Age: 36 YR

Gender: Male

Race: Caucasian

Family Number: 1126

Relation to Proband: father

Remarks: Spouse of GM09867 {46,XX,inv(21)}; father of GM09868 {46,XX,rec(21)}; 46,XY; 6% of cells show random chromosome loss

ISCN: 46,XY

Price: \$85

Ordering: [Ordering Instructions](#)
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Culture Protocol

Split Ratio: 1:3

Temperature: 37 C

Percent CO2: 5%

Medium: Roswell Park Memorial Institute Medium 1640 with 2mM L-glutamine

Serum: 15% fetal bovine serum Uninactivated

Substrate: None specified

Subcultivation Method: dilution - add fresh medium

Passage Frozen: 2

Characterizations

IDENTIFICATION OF SPECIES OF ORIGIN:

Species of Origin Confirmed by Nucleoside Phosphorylase, Glucose-6-Phosphate Dehydrogenase, and Lactate Dehydrogenase Isoenzyme Electrophoresis and by Chromosome Analysis

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